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	L10	L9 and L7	767
	L9	(order\$ or rank\$ or compar\$) with multimedia	5897
	L8	L7 and ((order\$ or rank\$) same multimedia)	1375
	L7	L6 or L5 or L4 or L3	167469
	L6	(382/218).ccls.	1100
	L5	709/(231,247).ccls.	91750
•	L4	715/(619,723).ccls.	92806
	L3	(715/501.1).ccls.	1407
DB=PGPB,USPT; PLUR=YES; OP=OR			
	L2	US-6628892-\$.DID.	. 1
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Multimedia content classification using motion and audio information

Yao Wang Jincheng Huang Zhu Liu Tsuhan Chen Polytech. Univ., Brooklyn, NY, USA;

This paper appears in: Circuits and Systems, 1997. ISCAS '97., Proceedings of 1997 IEEE International

Symposium on

Publication Date: 9-12 June 1997

Volume: 2

On page(s): 1488 - 1491 vol.2 Number of Pages: 4 vol. lxvi+2832 Meeting Date: 06/09/1997 - 06/12/1997 INSPEC Accession Number: 5745027

Digital Object Identifier: 10.1109/ISCAS.1997.622200

Posted online: 2002-08-06 20:57:31.0

Abstract

Content-based video segmentation and classification is a key to the success of future multimedia databases. Research in this area in the past several years has focused on the use of speech recognition and image analysis techniques. As a complimentary effort to prior research, we have focused on the use of motion and audio characteristics. Fundamental to both segmentation and classification tasks is the characterization by certain features of a given video segment. In this paper, we describe several audio and motion features that have been found to be effective in distinguishing motion and audio characteristics of different types of scene

Index Terms

Inspec

Controlled Indexing

acoustic signal processing audio signals image classification image segmentation motion estimation multimedia computing speech processing video signal processing

Non-controlled Indexing

audio characteristics content-based video classification content-based video segmentation motion characteristics multimedia content classification multimedia databases

Author Keywords

Not Available

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On page(s): 12-36, Volume: 17, Issue: 6, Nov 2000

Abstract | Full Text: PDF (1848)

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Hierarchical classification of audio data for archiving and retrieving

Tong Zhang Kuo, C.-C.J.

Integrated Media Syst. Center, Univ. of Southern California, Los Angeles, CA, USA;

This paper appears in: Acoustics, Speech, and Signal Processing, 1999. ICASSP '99. Proceedings., 199

IEEE International Conference on Publication Date: 15-19 March 1999

Volume: 6

On page(s): 3001 - 3004 vol.6 Number of Pages: 6 vol. (Ixiii+3584) Meeting Date: 03/15/1999 - 03/19/1999

Location: Phoenix, AZ

INSPEC Accession Number:6375925

Digital Object Identifier: 10.1109/ICASSP.1999.757472

Posted online: 2002-08-06 22:27:10.0

Abstract

A hierarchical system for audio classification and retrieval based on audio content analysis is presented in th paper. The system consists of three stages. The first stage is called the coarse-level audio classification and segmentation, where audio recordings are classified and segmented into speech, music, several types of environmental sounds, and silence, based on morphological and statistical analysis of temporal curves of short-time features of audio signals. In the second stage, environmental sounds are further classified into fine classes such as applause, rain, bird sound, etc. This fine-level classification is based on time-frequency analysis of audio signals and use of the hidden Markov model (HMM) for classification. In the third stage, the query-by-example audio retrieval is implemented where similar sounds can be found according to an input sample audio. It is shown that the proposed system has achieved an accuracy higher than 90% for coarselevel audio classification. Examples of audio fine classification and audio retrieval are also provided

Index Terms Inspec

Controlled Indexing

audio signal processing content-based retrieval database management systems feature extraction hidden Markov models information retrieval mathematical morphology signal classification statistical analysis time-frequency analysis

Non-controlled Indexing

archiving audio classification audio content analysis audio data audio recordings audio signal coarse-level audio classification environmental sounds hidden Markov model hierarchical classification morphological analysis music query-by-example audio retrieval retrieval segmentation silence speech statistical analysis temporal curve time-frequency analysis

Author Keywords

Not Available

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Multimedia content analysis-using both audio and visual clues, Yao Wang; Zhu Liu; Jin-Cheng Huang Signal Processing Magazine, IEEE

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Scene determination based on video and audio features

Lienbart, R. Pfeiffer, S. Effelsberg, W. Intel Res. Lab., Santa Clara, CA, USA;

This paper appears in: Multimedia Computing and Systems, 1999. IEEE International Conference on

Publication Date: 7-11 June 1999

Volume: 1

On page(s): 685 - 690 vol.1

Number of Pages: 2 vol. (xlix+909+1127) Meeting Date: 06/07/1999 - 06/11/1999

Location: Florence

INSPEC Accession Number:6325445

Digital Object Identifier: 10.1109/MMCS.1999.779282

Posted online: 2002-08-06 23:02:11.0

Abstract

Determining automatically what constitutes a scene in a video is a challenging task, particularly since there i no precise definition of the term "scene". It is left to the individual to set attributes shared by consecutive short which group them into scenes. Certain basic attributes such as dialogs, like settings and continuing sounds a consistent indicators. We have therefore developed a scheme for identifying scenes by clustering shots according to detected dialogs, like settings and similar audio. Results from experiments show automatic identification of these types of scenes to be reliable

Index Terms

Inspec

Controlled Indexing

content-based retrieval multimedia databases video databases

Non-controlled Indexing

audio features automatic scene identification consecutive shots content based analysis continuing sounds dialogs experiments multimedia scene determination shot clustering video features

Author Keywords

Not Available

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Content-based classification, search, and retrieval of audio

Wold, E. Blum, T. Keislar, D. Wheaten, J.

Dept. of Electr. Eng. & Comput. Sci., California Univ., Berkeley, CA, USA;

This paper appears in: Multimedia, IEEE

Publication Date: Fall 1996

Volume: 3, Issue: 3 On page(s): 27 - 36 ISSN: 1070-986X

INSPEC Accession Number:5419743 Digital Object Identifier: 10.1109/93.556537 Posted online: 2002-08-06 20:42:36.0

Abstract

Many audio and multimedia applications would benefit from the ability to classify and search for audio based on its characteristics. The audio analysis, search, and classification engine described here reduces sounds t perceptual and acoustical features. This lets users search or retrieve sounds by any one feature or a combination of them, by specifying previously learned classes based on these features, or by selecting or entering reference sounds and asking the engine to retrieve similar or dissimilar sounds

Index Terms

Inspec

Controlled Indexing

classification information retrieval multimedia computing multimedia systems

Non-controlled Indexing

audio classification content-based multimedia retrieval search

Author Keywords Not Available

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Integrated image and speech analysis for content-based video indexing

Yuh-Lin Chang Wenjun Zeng Kamel, I. Alonso, R.

Matsushita Inf. Technol. Lab., Panasonic Technol. Inc., Princeton, NJ, USA;

This paper appears in: Multimedia Computing and Systems, 1996., Proceedings of the Third IEEE

International Conference on Publication Date: 17-23 June 1996

On page(s): 306 - 313

Meeting Date: 06/17/1996 - 06/23/1996

Location: Hiroshima

INSPEC Accession Number:5357963

Digital Object Identifier: 10.1109/MMCS.1996.534992

Posted online: 2002-08-06 20:32:29.0

Abstract

We study an important problem in multimedia database, namely the automatic extraction of indexing information from raw data based on video contents. The goal of our research project is to develop a prototyp system for automatic indexing of sports videos. The novelty of our work is that we propose to integrate speed understanding and image analysis algorithms for extracting information. The main thrust of this work comes from the observation that in news or sports video indexing, usually speech analysis is more efficient in detecting events than image analysis. Therefore, in our system, the audio processing modules are first applic to locate candidates in the whole data. This information is passed to the video processing modules, which further analyze the video. The final products of video analysis are in the form of pointers to the locations of interesting events in a video. Our algorithms have been tested extensively with real TV programs, and result: are presented and discussed

Index Terms Inspec

Controlled Indexing

audio-visual systems information retrieval interactive video multimedia computing sport

Non-controlled Indexing

audio processing modules automatic extraction automatic indexing content based video indexing image analysis image analysis algorithms indexing information interesting events multimedia database raw data real TV programs speech analysis speech understanding sports videos video contents video processing modules

Author Keywords

Not Available

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